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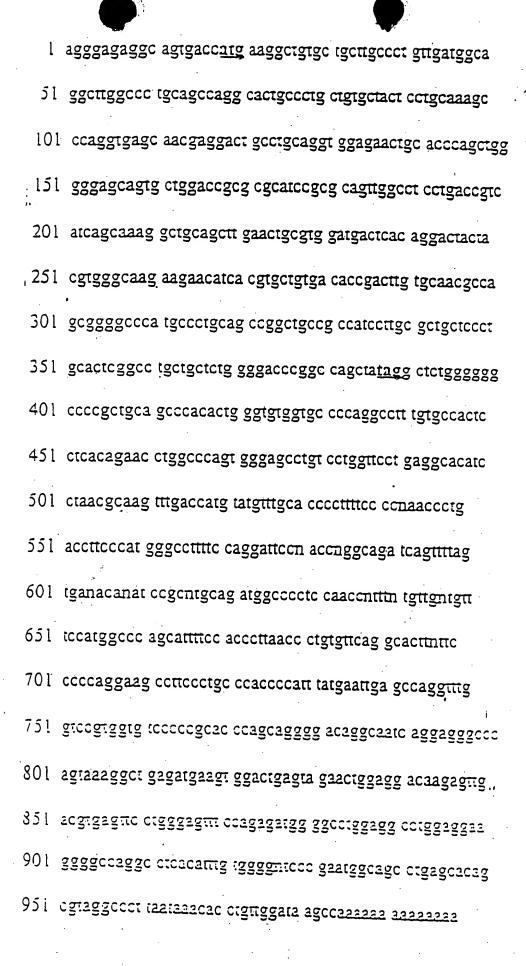
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M.A.LLALLMAGLALQPGTALLCYSCKAQVSNEDCLQNENCTQLGEQCWTARIRAVGLLTV I SKGCSLNCVDDS
ODYYVGKKNITCCDTDLCNASGAHALQPAAAILALLPAL

FIGURE 1B

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,,	1	'AC1	TCI	GTC	'AAA	AAA	LAAT	'AGG	ACC	ACC	GG1	(GG)	\TG2	ATC	GGC	ACC	TAC	GTC	CAC	GACG	+ 60 A
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	A	CGT	CGG	ACC:	rgg:	rcg:	rgto	CAAC	GAJ	AAT	GTA	GCG	CGT	AGG(CC	GGT.	AAC	TGA	 NGCA	CTGT	180
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241	A.	\GAA	\GAA	CAT	CAC	GTG	CTG	CTA	CTC	TGA	ACC1	rgtc	CAA	TGI	CA	CGC	GGC	CCA	CAC	CCTG	
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361	AG	CCG	TCT	STA	GGC:	CTC	GGG#	\GA(GCC:	TAC	CAT	AGC	CCG	ATTO	GTG.	A AG	GGA:	rgac	СТС	CAC	
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	AGC	TGC	GG1	'GGC	GGT	GTG.	TCC	•									٠				

hSCA-2 hPSCA mPSCA

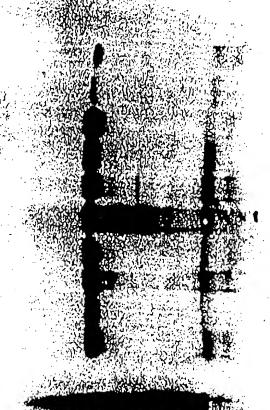
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FIGURE 5

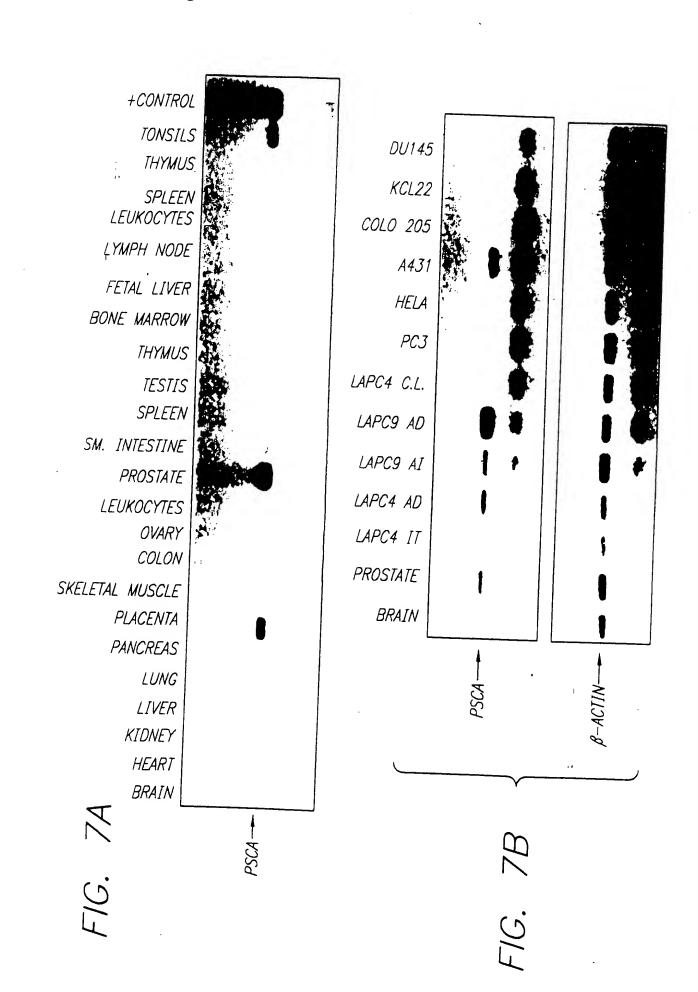
2°



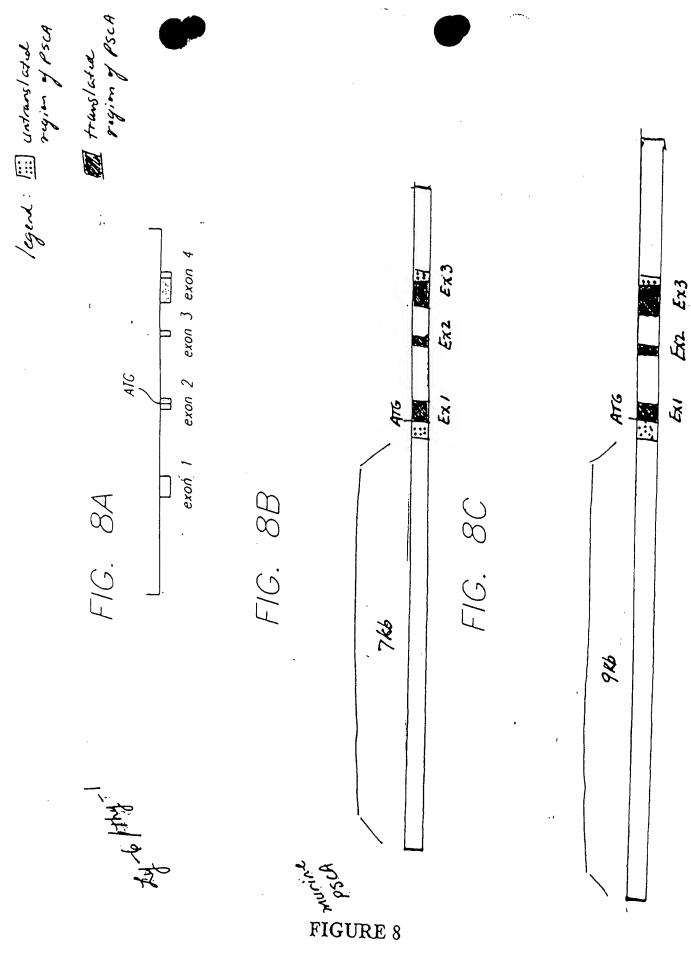
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prostate (Buth)
prostate (Buth)
Bladder (Hurrier)
Bladder (dek)
Bladder (Ade)
Kidney (NLIOY)
Kidney (NLIOY)
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Sm. Intest.

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Anomal Rose

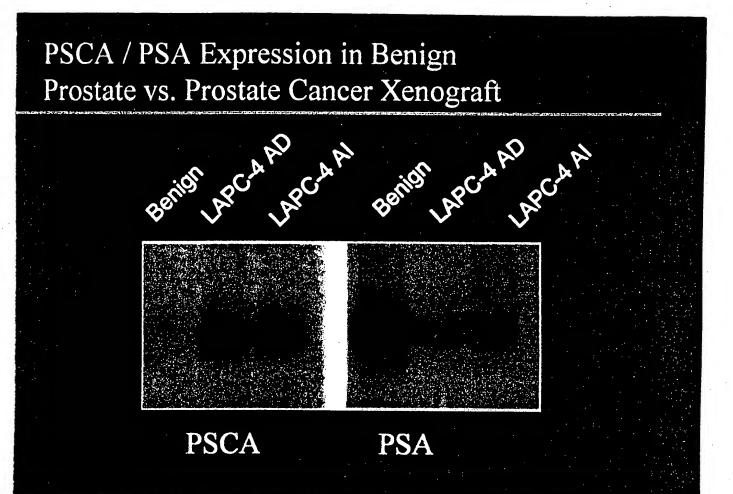
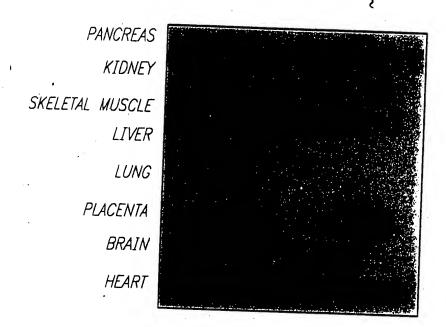


FIG. 9B



PERIPHERAL LEUKOCYTES

COLON

SMALL INTESTINE

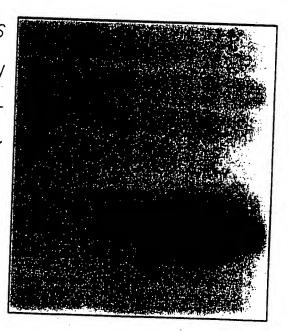
OVARY

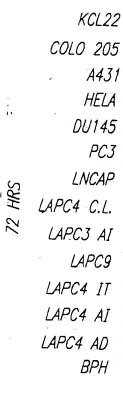
TESTIS

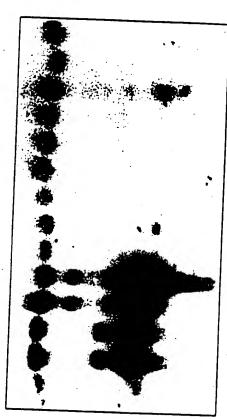
PROSTATE

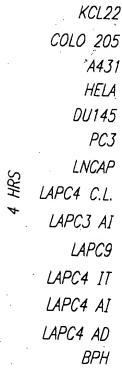
THYMUS

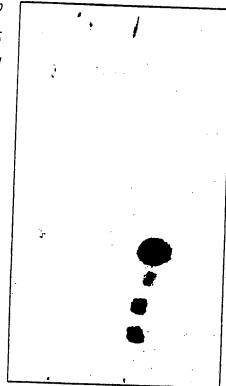
SPLEEN

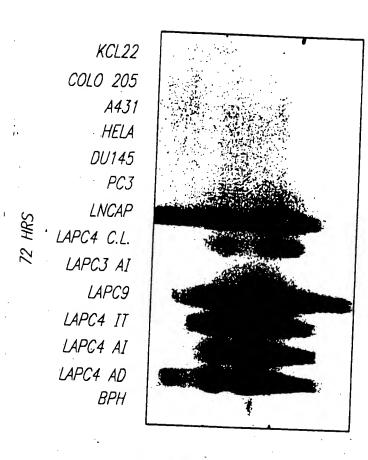












COLO 205

A431

HELA

DU145

PC3

LNCAP

LAPC4 C.L.

LAPC3 AI

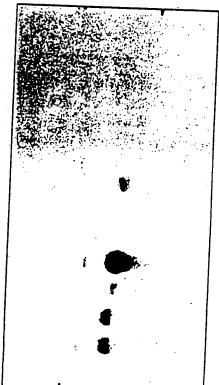
LAPC9

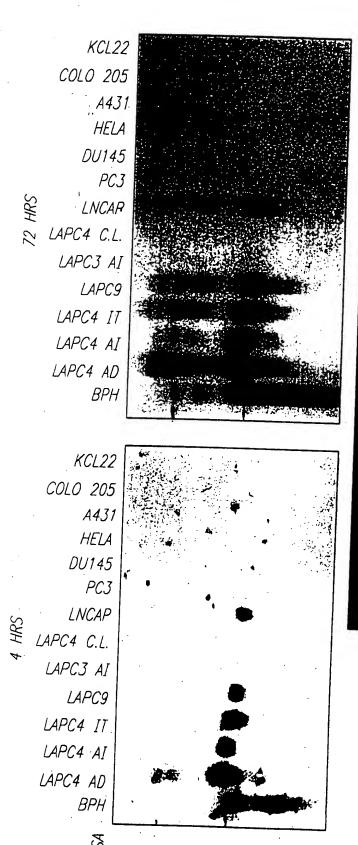
LAPC4 IT

LAPC4 AD

BPH

KCL22





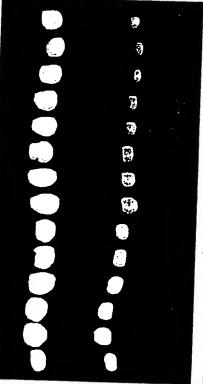


FIG. 10-3

FIG. 11A





FIG. 11B

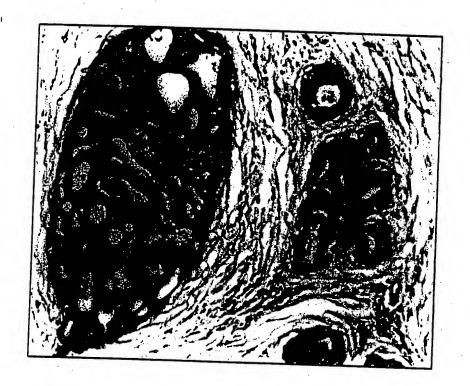
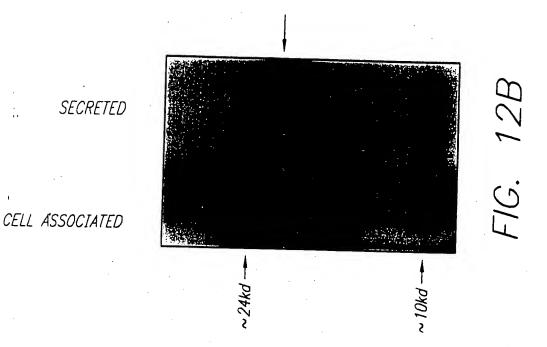


FIG. 11C



O GLYCOSIDASE

N GLYCOSIDASE F

CONTROL

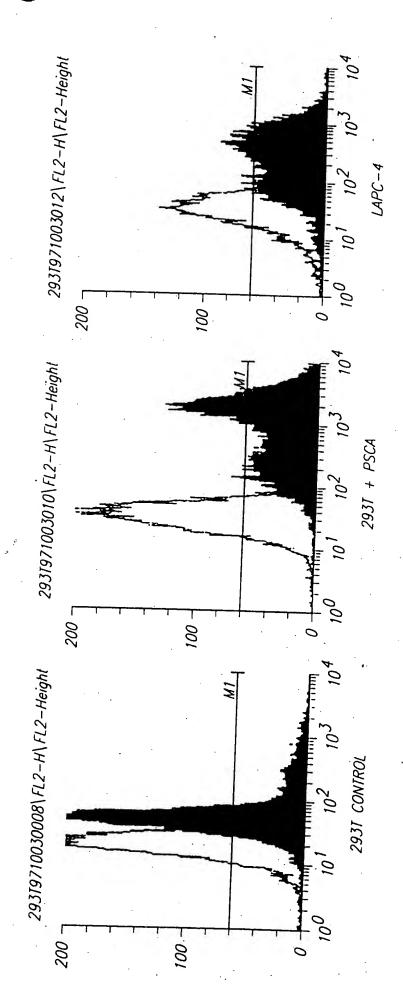
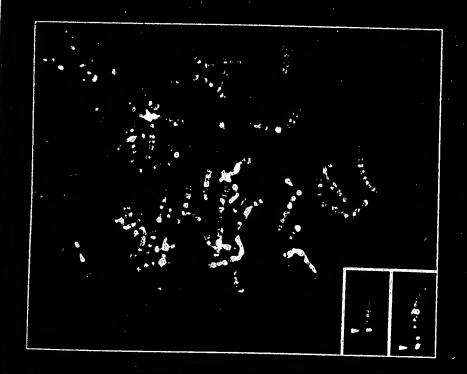
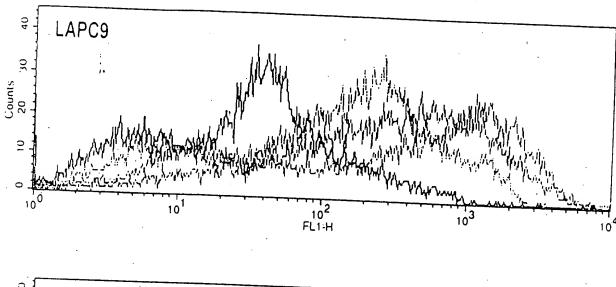


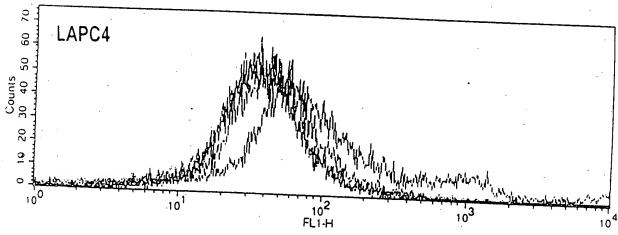
FIGURE 12C

PSCA Maps to Chromosome 8q24.2



Fluorescent in Situ Hybridization Analysis of PSCA





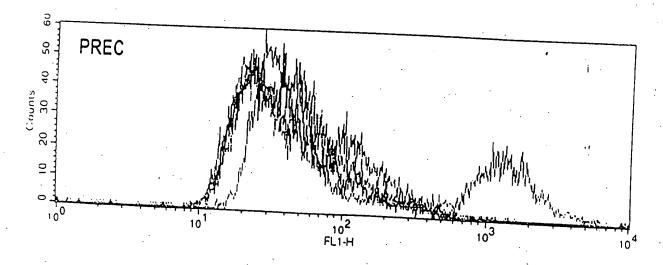


FIGURE 14

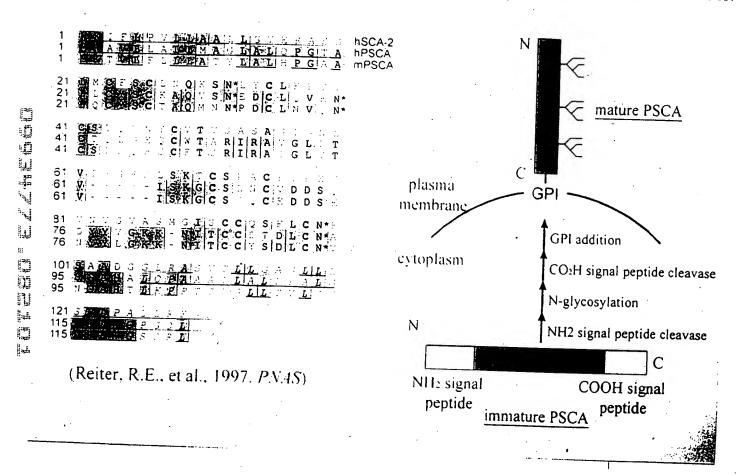
C (85-123) 0.000 0.021 0.005 0.370 0.014 0.003
M (46-109) 0.628 0.032 0.016 0.000 0.000
N (2-50) 0.007 0.863 1.965 0.024 1.315 0.733
EL (18-98) 2.039 1.318 2.893 0.328 2.039 1.366 2.805
Isotype IgG1 k IgG2a k IgG2a k IgG2a k IgG2a k IgG2a k IgG2a k
mAb 1G8 2H9 3C5 3E6 4A10 2A2 3G3

3C5 2H9 U ∑ Z **2A2** 168



FIGURE 15

Prostate Stem Cell Antigen (PSCA) is a GPI-anchored Protein



FISH Analysis of PSCA and c-myc in Prostate Cancer

Gain Chromosome 8 Amplification

#34 c-myc #75 c-myc

#34 PSCA #75 PSCA

R. Jenkins

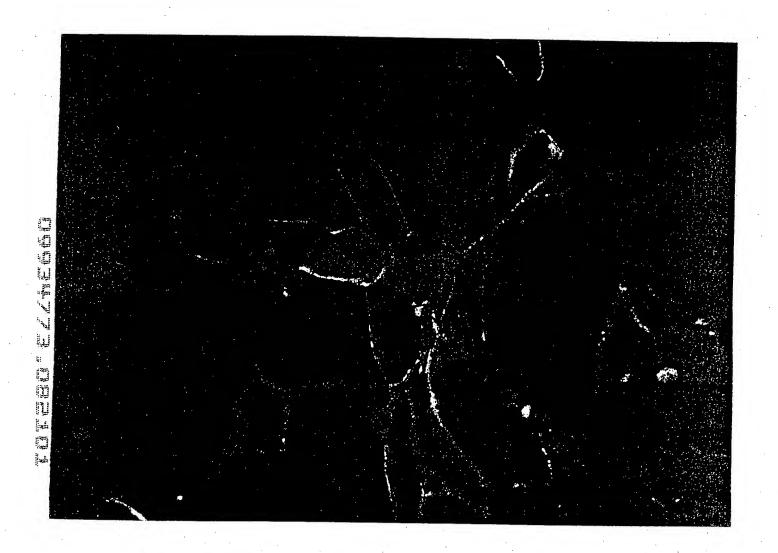


FIGURE 18

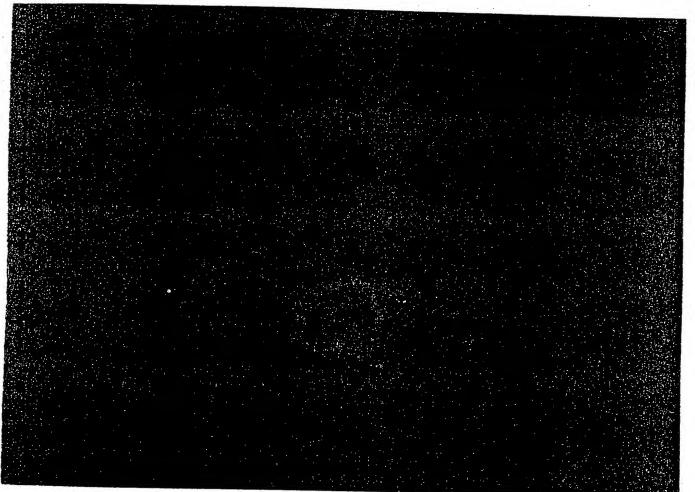
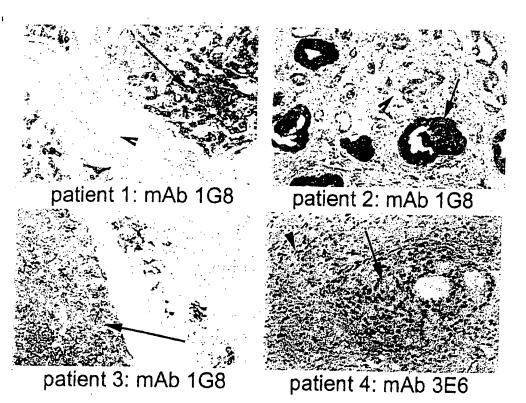


FIGURE 19



FIGURE 20

PSCA Immunostaining of Primary Tumors



•

FIGURE 21



FIGURE 22

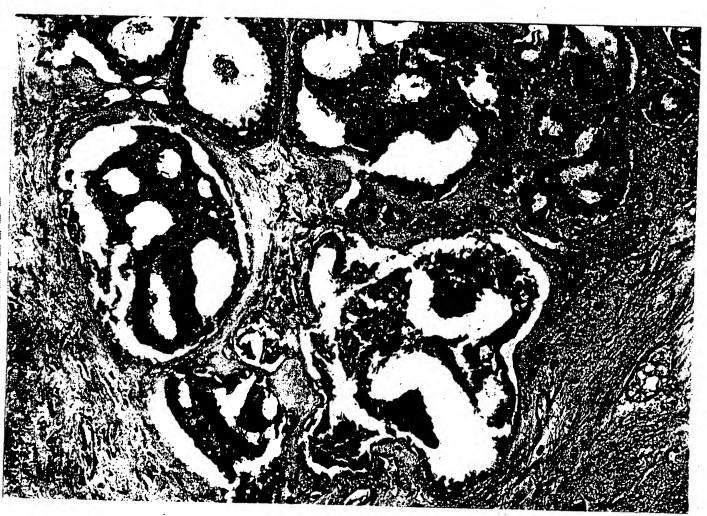
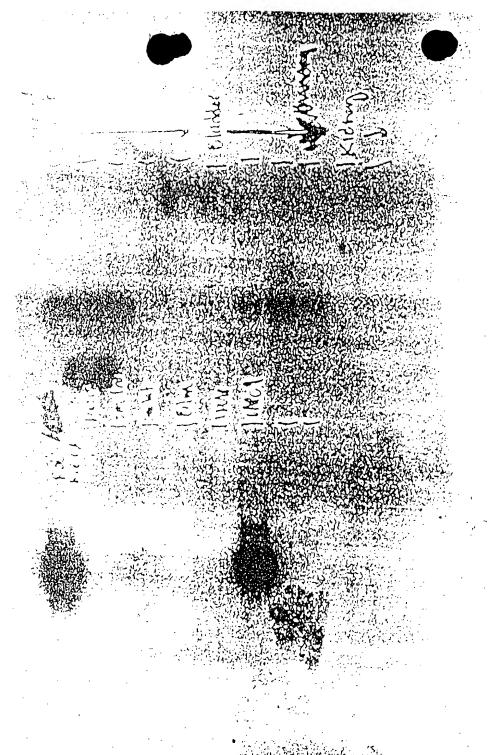


FIGURE 23



FIGURE 24



This 1950

FIGURE 25

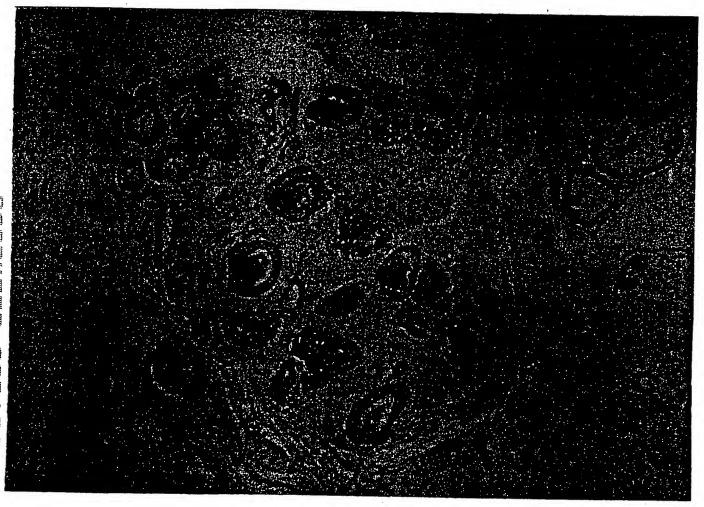


FIGURE 26



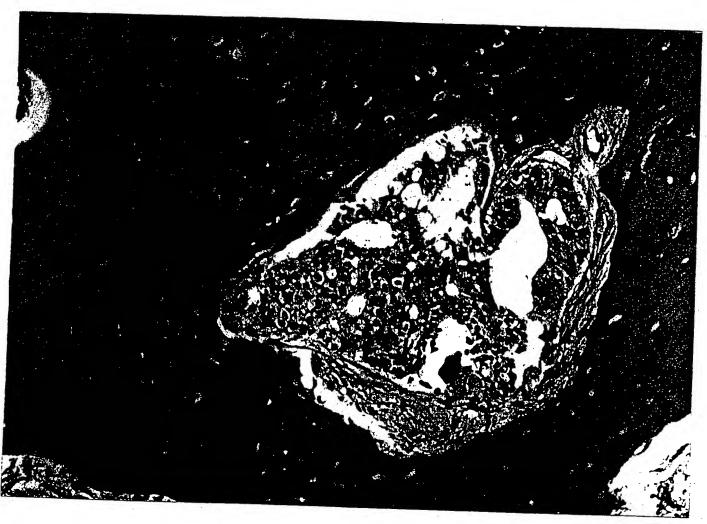
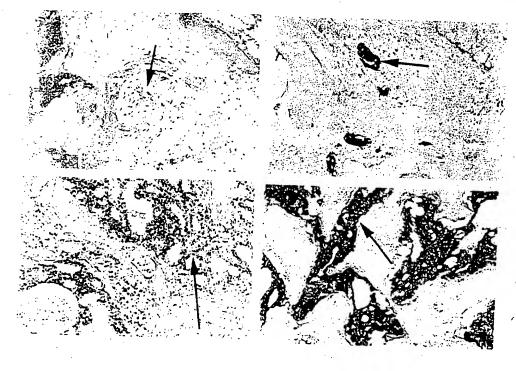


FIGURE 27

PSCA Immunostaining of Bony Metastases



Patient 5: H and E and mAb 1G8

Patient 4: H and E and mAb 3E6



FIGURE 29

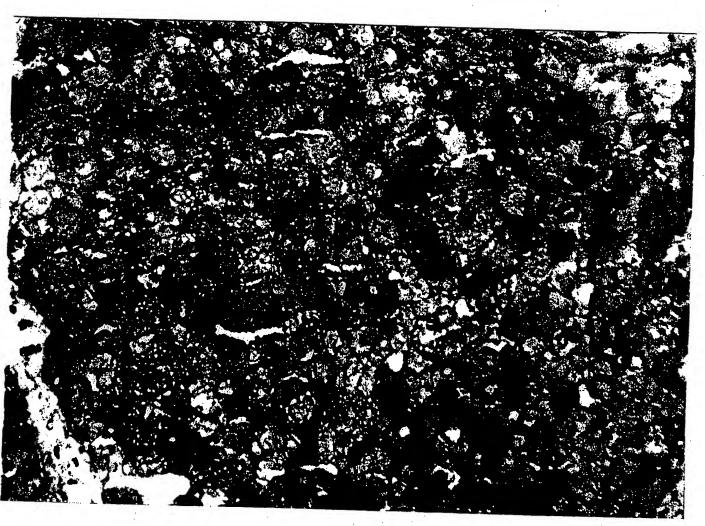


FIGURE 30

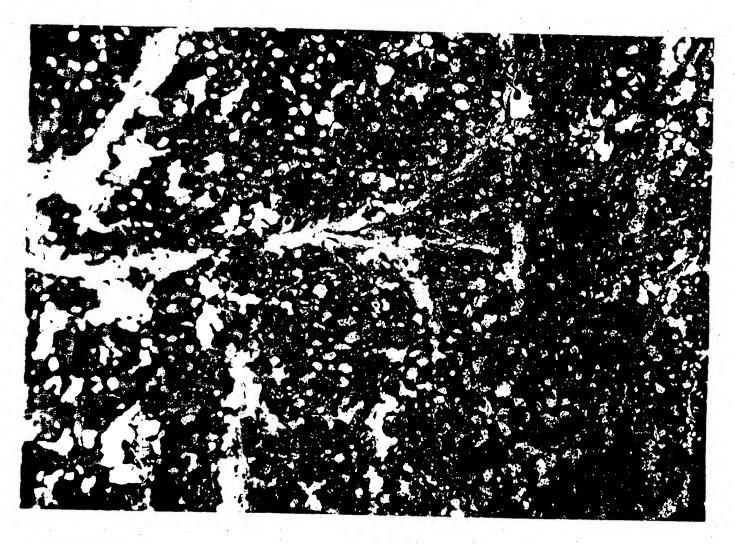


FIGURE 31

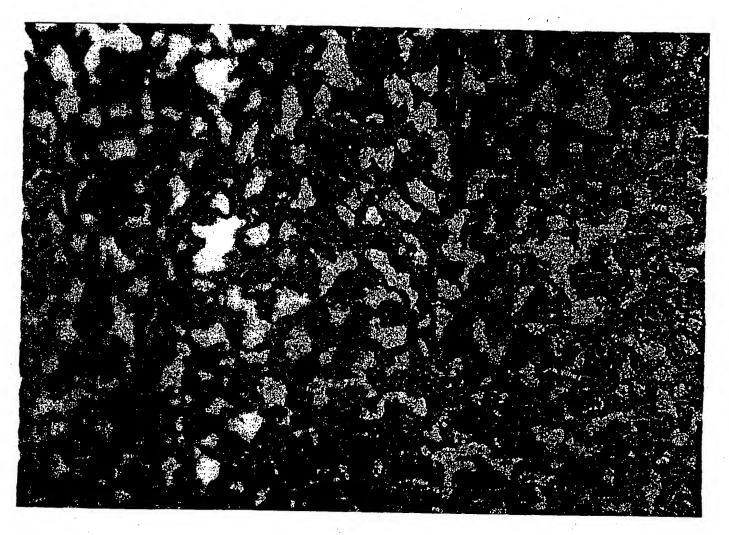


FIGURE 32

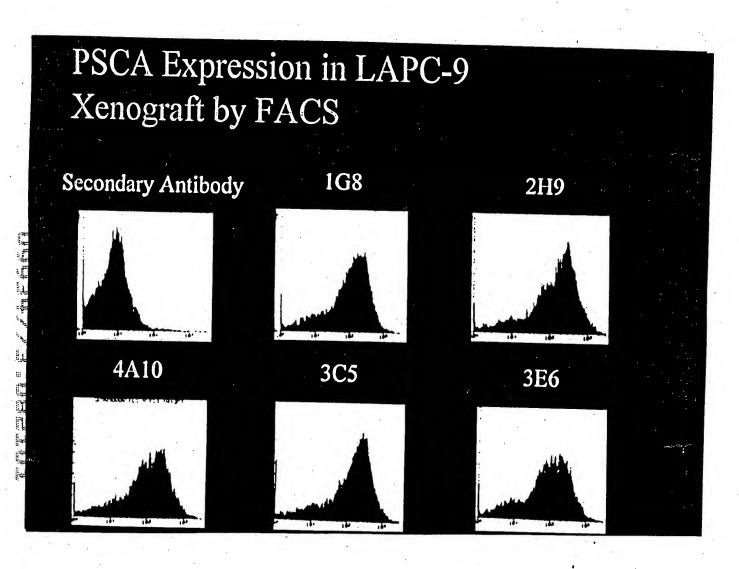


FIGURE 33

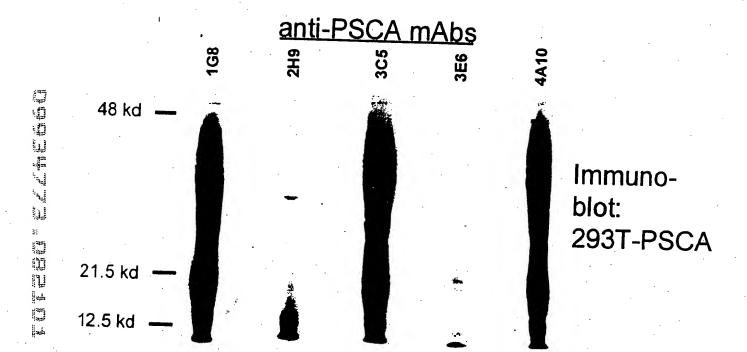


FIGURE 34

Immunofluorescent Staining of LNCaP-PSCA Cells

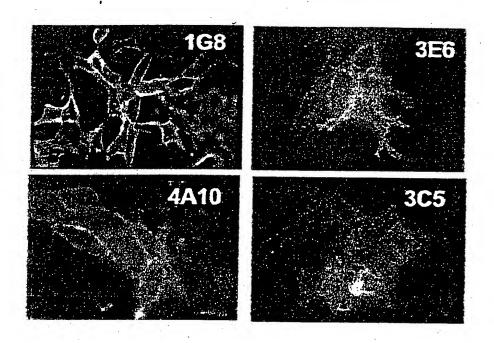


FIGURE 35

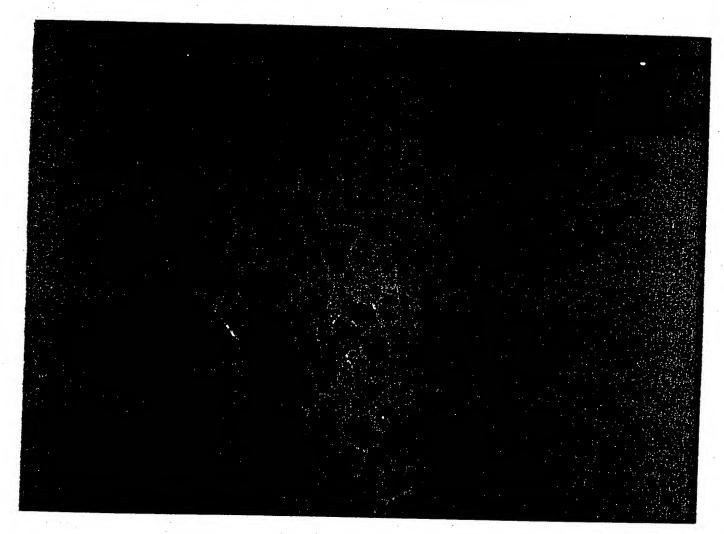
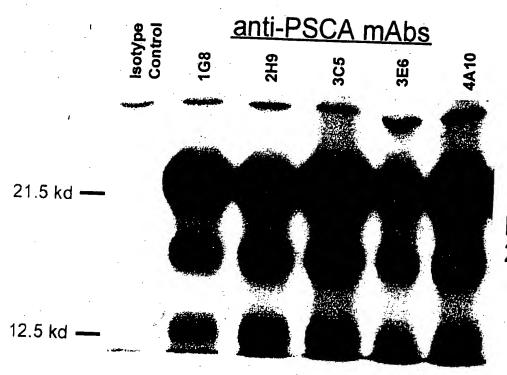


FIGURE 36



Immunoprecipitation: 293T-PSCA

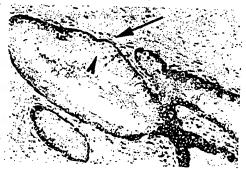
FIGURE 37

Immunohistochemical Staining of Normal Prostate

Normal: Isotype Control

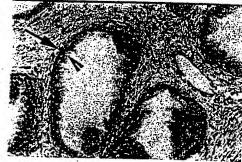


Normal: PSCA mAb 3E6

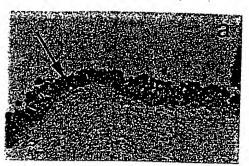


Normal: PSCA mAb 1G8 Atrophy: PSCA mAb 2H9

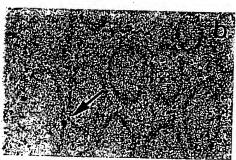








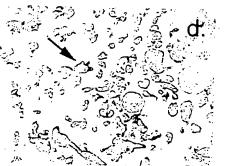
Bladder: 1G8



Colon: 1G8

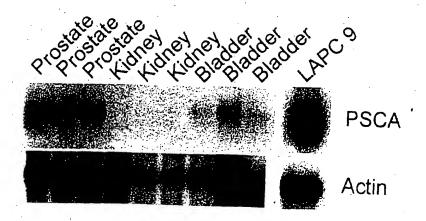


Kidney: 3E6

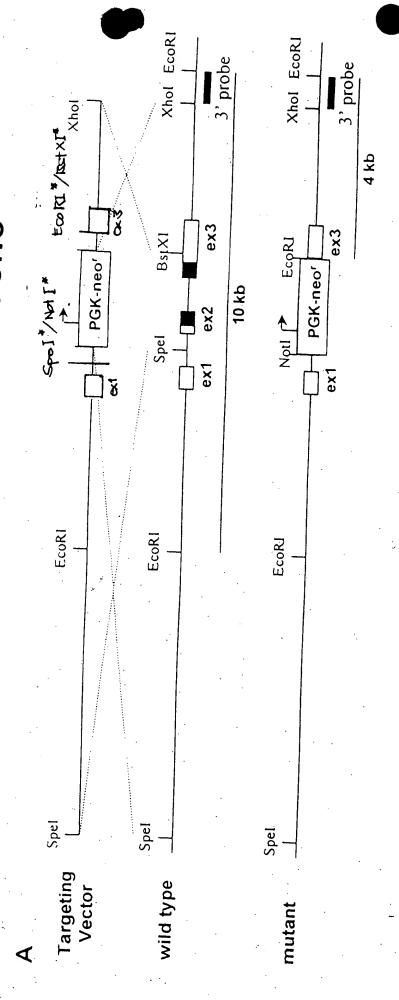


Placenta: 3E6

B.



Targeting of Mouse PSCA Gene



* ex1, 2, and 3 are the exons of PSCA gene.

* Black boxes of ex2 and ex3 encode PSCA mature protein sequences.

* ES genomic DNA's were digested with EcoRI, followed by Southern hybridization using 3' probe

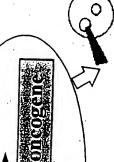
B. Genomic Southern Analysis of ES Cells
+/+ +/10 kb→

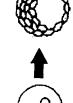
FIGURE 40

4 Kb ≯

Transgenic Mouse Models of Prostate Cancer

promoter prostate specific











Mouse bearing

of transgenes into male pronucleus Microinjection

Offspring expressing oncogene in prostate Embryo

prostate cancer

Transgene

SV40 large+small₁ \\ Maroulakou et al. C3(1) (-3 kb)/

1994 PNAS

prostate (secretory cells)

Target tissues

urethral, mammary and

sweat gland

prostate (secretory cells)

SV40 large+small, I Greenberg et al.

1995 PNAS

Probasin (-426 bp)/

Invasive carcicinoma 28 wks High-grade PIN 8-12 wks Low-grade PIN 8-12 wks Characteristics

No metastases

Invasive carcicinoma 12 wks Metastases in lymph node, High-grade PIN 8-12 wks Low-grade PIN 5-8 wks lung, liver and bone

Low-grade PIN 8-12 wks

small intestine

(neuroendocrine cells)

prostate

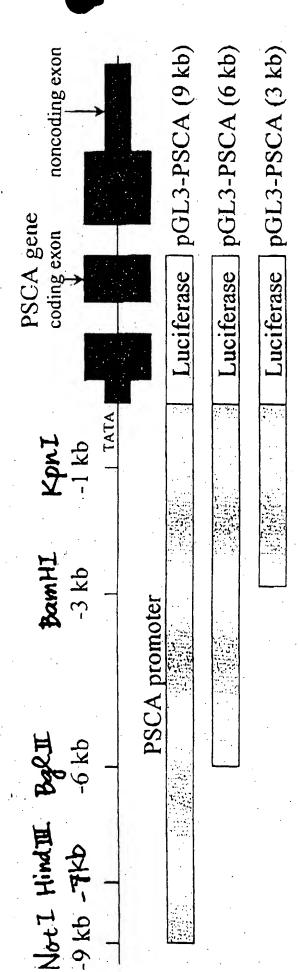
Cryptdin2 (-6.5 kb)/

SV40 large+small Garabedian et al

1998.PNAS

Invasive carcicinoma 16 wks Metastases in lymph node, High-grade PIN 8-12 wks lung, liver and bone

Reporter Gene Constructs for Transfection Assay



Unromoter Luciferase pGL3-CMV

Luciferase pGL3-PSCA (1 kb)

Luciferase pGL3-basic

CMV promoter

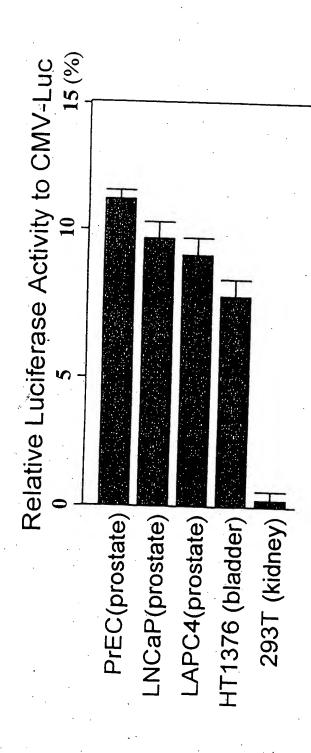


FIGURE 43

Identification of Prostate-Specific Elements Within PSCA Promoter Sequences

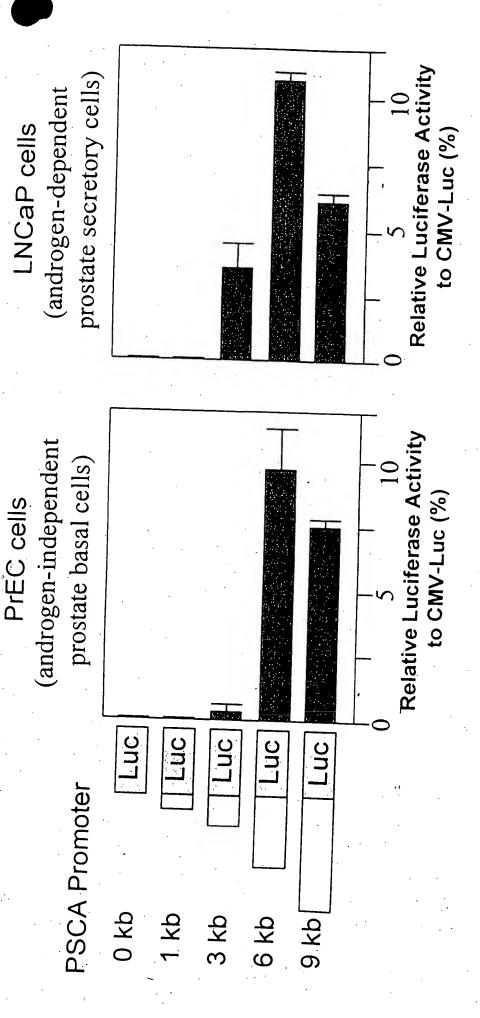


FIGURE 44

Update of Transgenic Mouse Projects

(DNA positive) Number ot Founders Genomic Structure of PSCA exon 1 exon 2 exon 3 3'hGH PSCA promoter (6kb) CERE intron PSCA promoter (6kb) CERP DE ATG PSCA promoter (6kb) PSCA promoter (9kb) PSCA promoter (9kb) PSCA promoter (9kb) PSCA promoter PSCA(9 kb)-GFP-3'hGH PSCA(6 kb)-GFP-3'hGH PSCA(9 kb)-SV40TAG PSCA(6 kb)-SV40TAG PSCA(9 kb)-GFP PSCA(6 kb)-GFP

FIGURE 45

Negative tissues Seminal Vesicle Small intestine Stomach Urethra Colon **Testis**

Kidney Liver

Lung Brain

Heart

Skeletal muscle Ovary

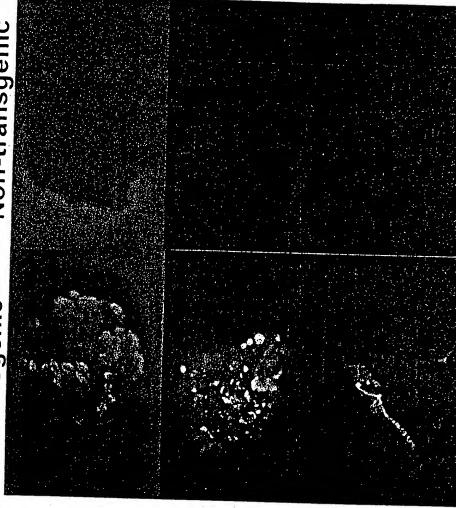
Prostate

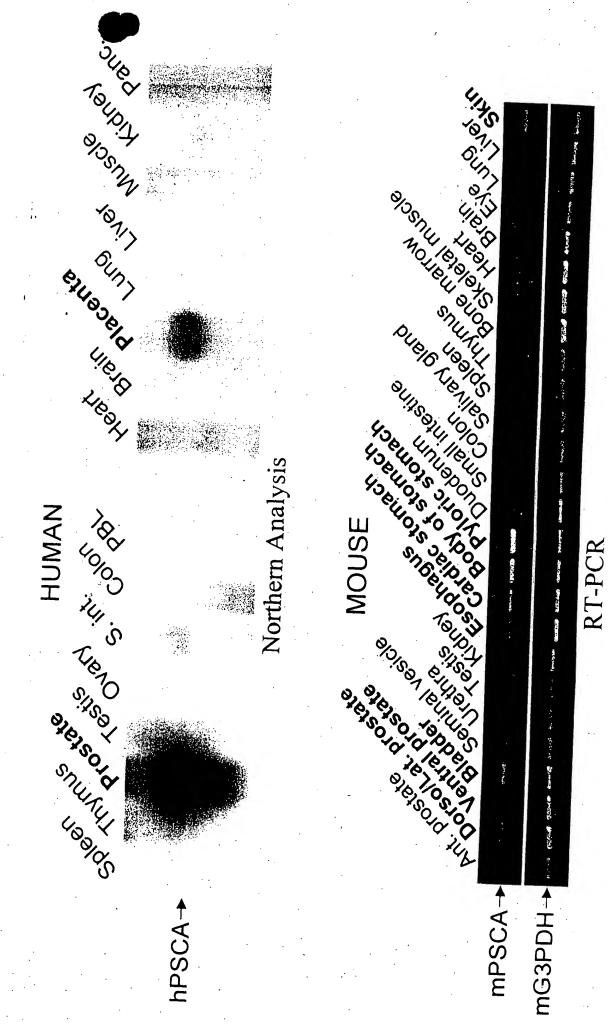
(A25-106-2)

(A25-104)Bladder

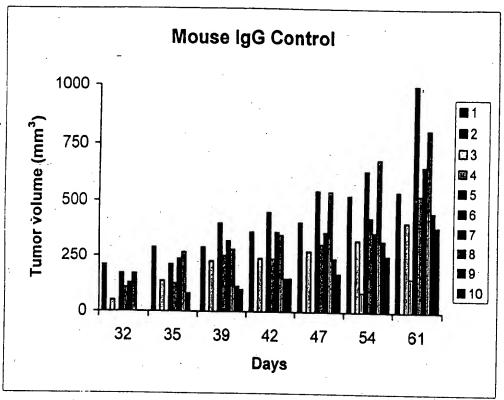
(A25-106-2)Skin

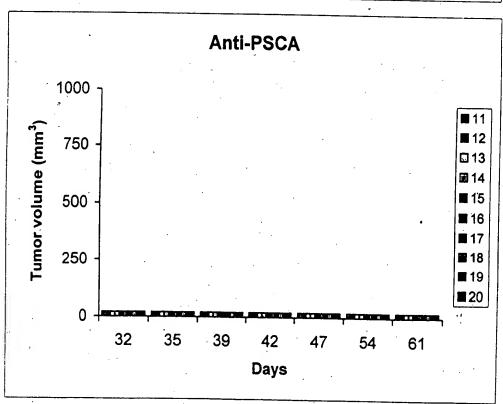
Whole-mount green fluorescence image Non-transgenic Transgenic





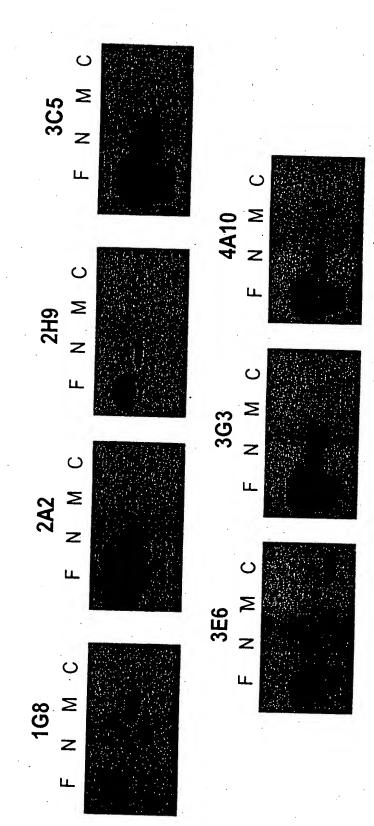
THEURE 47



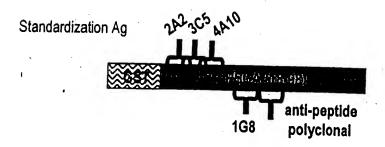


O+ .

	•
nm)	C (85-123) 0.003 0.010 0.001 0.002 2.118 0.000
oltope recognized (OD 450 nm)	M (46-109) 1.273 0.023 0.002 0.006 1.133 0.004
Epitope recog	N (2-50) 0.004 0.631 1.026 1.709 0.036 1.731
	F (18-98) 1.485 0.973 1.069 1.609 2.805 1.053
•	
	8l ㅈㅈㅈㅈㅈㅈㅈ
	Sotype 1961 K 1962a K 1962a K 1962a K 1963 K 1962a K 1963a K 1962a K 1962a K 1962a K
	mab 168 2A2 2H9 3C5 3E6 3G3 4A10



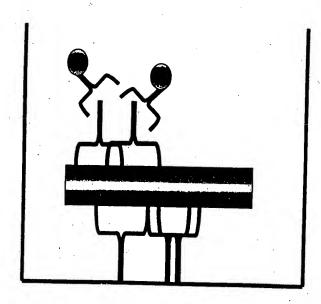
Ø



Engineered mammalian secreted form



B

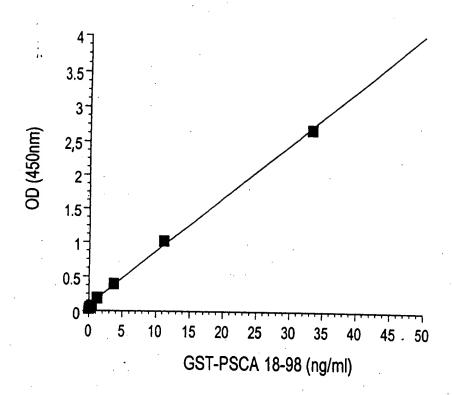


Anti-IgG2a HRP

Anti-PSCA mAbs 3C5+4A10+2A2 (IgG2a)

PSCA

Affinity purified anti-peptide polyclonal + mAb 1G8 (IgG1)



B

<u>Sample</u>	OD+range (n=2)	<u>ng/ml</u>
vector	0.005+0.001	ND
vector+hu serum	0.004+0.001	ND'
secPSCA	2.695+0.031	32.92
secPSCA+hu serum	2.187+0.029	26.55

FIG. 52

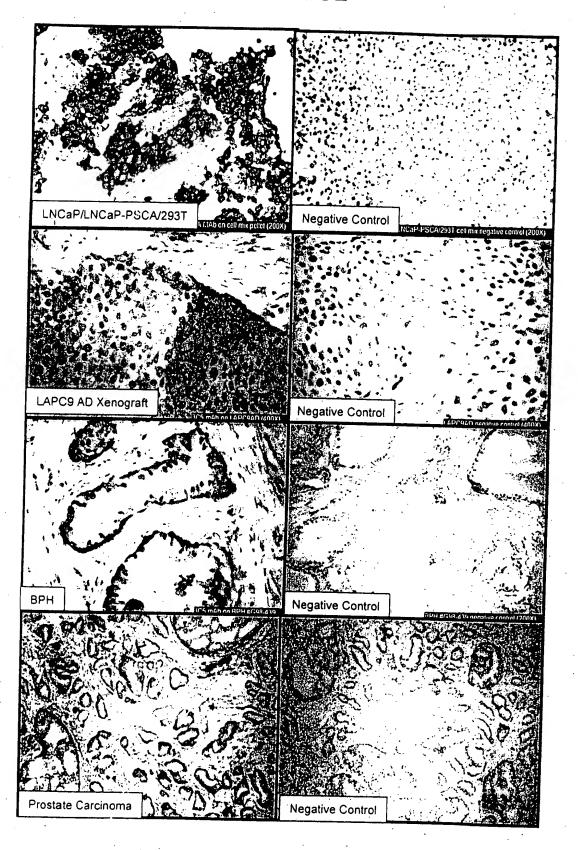
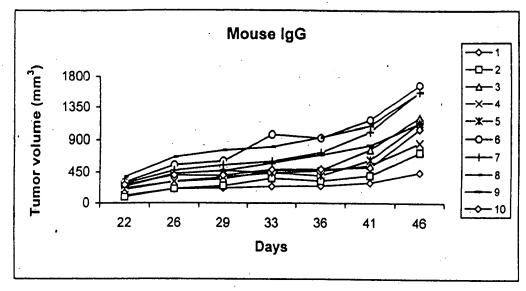
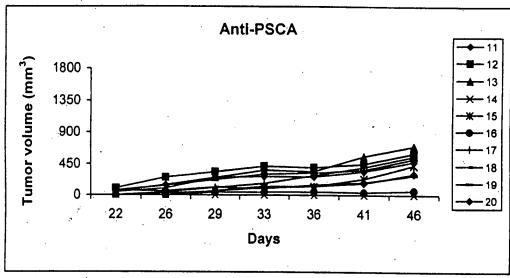
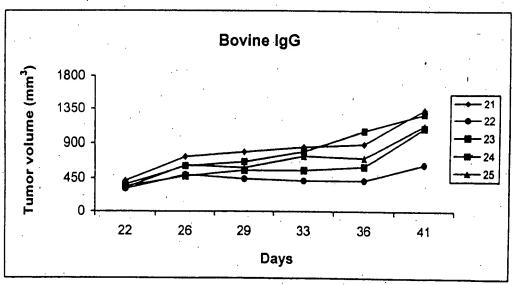
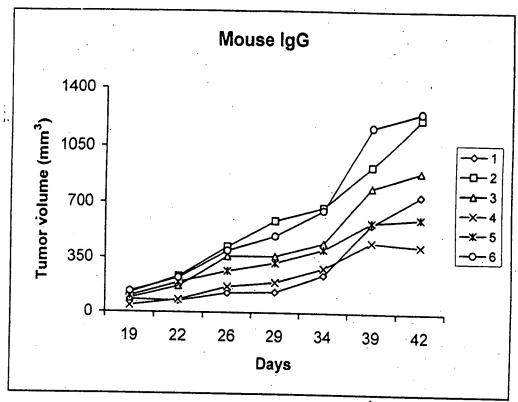


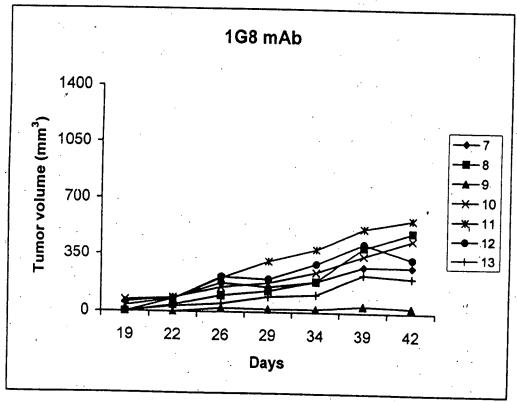
FIG. 53

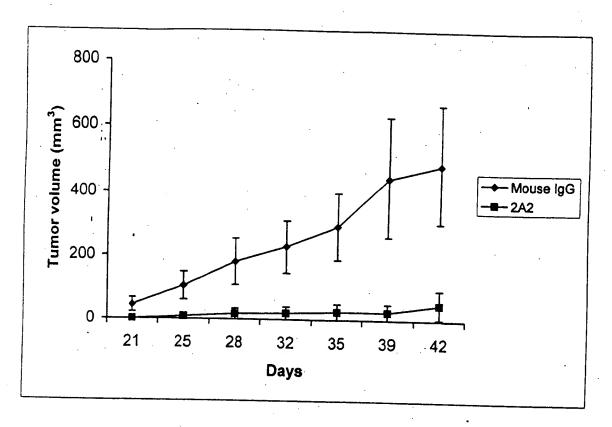


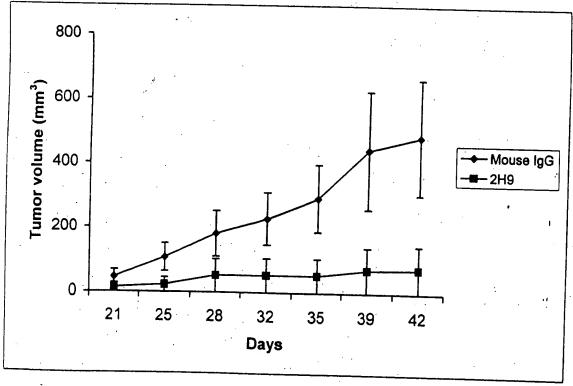


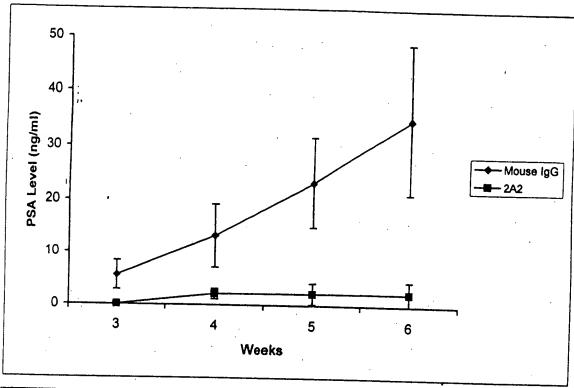


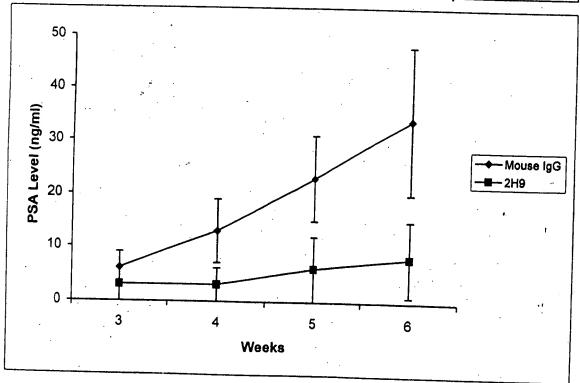












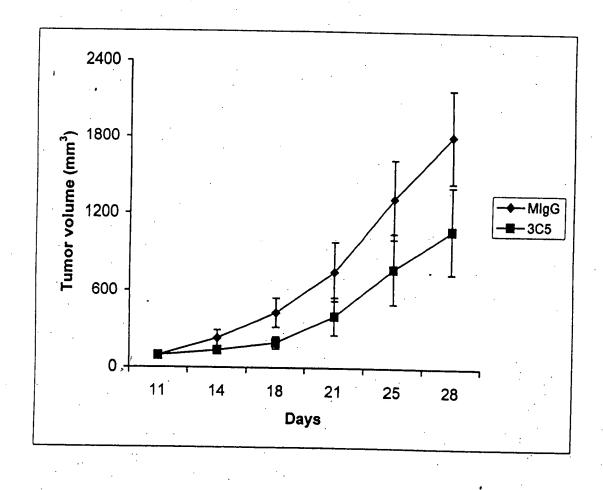


FIG. 58

TGC	CTTC	TTC:	CTC	SATO	3GC!	AGT	GT.	rat.	AGG!	AGT	CAA	rtc <i>i</i>	AGAC	GT:	rcac	CTC	CAC	CAG	TCT	60
С	F	F.	L	М	Α	V	V	I	G	Ý	N	S	E	V	Q	L	Q	Q	S	20
GGG	יכרא	GλΆ	ر برارا	ירישיר	בא כיכ	יחיריז		7000	ישר	Vama	1226	amm c								
000	NGCA	.GAA	·C 1 1	. 610	JOA.	41 CF) 2001	3GC(. I C.	iGT(AAC	- T.I.C	TCC	TGC				'GGC	TTC	120
. હ	A	E	ι	. V	R	S	نی	A	S	V	K	. L	S	С	T	Α	S	<u>G</u> _	<u>F</u>	40
		7.7.7	- ÇE	R1 ·										•						
AAC	AII	AAA	GAC	TAC	TAT	ATA	CAC	TGG	GTC	AA'I								GAG	TGG	180
		K	D.	<u>Y</u>	Y		_н	.W	V	N	Q	R	P	D	Q	G	L	E	W	60
										CDR	2	,								
ΑΤΤ	GGA	† GG	חית ע	יב איז	יככיז	CAC	ית גי	יככיז		תי מים מי	. Z —	mma							AAG	
т	C	w	AII T	GAI	ם.	GAC	NT NT	.661	GAC	AC I	GAA	.1111	GTC	CCC	AAG	TTC	CAG	GGC.		240
Ť.	G	и			<u>F</u>			G	<u> </u>		<u> </u>	<u>F</u>		Р_	_K_	<u> </u>	_0_	_G	K	80
									,											
GCC.	ACT.	ATG.	ACT	GCA	GAC	'ATT	TTC	TCC	AAC	ACA	GCC	TAC	'CTG	CAC	ירידר	י אמר	a cc	ርጥር።	ACA	300
Α	Т	М	T	Α	D	I	F	S	N	Т	A			Н		s		L		100
								_		_		-			₽		5	ш.	1 .	100
											– C	DR3								
TCT	GAA	GAC.	ACT	GCC	GTC	TAT	TAC	TGT	ΑΑΑ	ACG	GGG	ದಿದ್ದಾ	ب ا	тċс	CCC	ሮአ አ	000	7 (7m)	CTG	
Ś	Ε	D	Т	A	v	Y	Y	C	K				F.		G	CAA	G	ACT T	CTG Ti	
		-	_		·	_	-	Ŭ	•	•	<u> </u>			**	G	Q	G	T	יו	120
				5																
GTC	A CTO	3 ምር'	ኮሮጥ	GCA	GCC	מממ	A CG	ልሮኦ	פפפ	רליאי	ጥረጣ	CTC	עט אינט		CTG					
V	T	V	S.		A			иси Т	P	P P	S	U V			CTG					
•	•	٧	٠.	A	. ^	1	1	1	P	P	5	V	Y	P	L					

CTGGCC L A

FIG. 59

TTC	GTA	AGC	AAC	AGC	CTC	AGA:	rgro	CAC	CTC	CCAC	GT(CCA	ACTO	CAC	GCA!	ACCI	GGC	TCI	GAA	60
L	V	A ;.	Т	Α	S	D	V	Н	S	Q	v	Q	L	Q	Q	P	G	S	E	20
CTC	GTG	AGG	GCT	GGA	ACI	TC	AGTO	AAC	CTO	TCC	CTGO	CAAC	GCI	TCI	rgg(TAT	'ACA	TTC	TCC	120
L	V	R	P	G	Т	S	V	K	L	S	С	K	Α	S	_	Y		F .CD	S	40
AGC	TAC	TGO	ATG	CAC	TGG	GTG	AAG	CAG	AGG	CCI	GGA	CAA	.GGC	CTI	GAG	TGG	ATT	GGA	ААТ	180
S		W			W	V	K	Q	R		G		G	L	E	W	I	·G	N_	60
» ma				~-					:											
AT"1	GAC	CC1					ACT									AAG	GCC	ACA	.CTG	240
	<u> </u>	<u> </u>	<u> </u>	S	G CDR		T	_N_	<u> Y</u>	_A_	_E_	N	_ <u>L</u> .	<u>K</u> .	<u>T</u>	K	A	T	L	80
					CDI	.2	•													
ACT	'GTA	GAC	ACA			AGC	ACA	GCC	TAC	ATG	CAG	CTC	AGC	AGC	CTG	ACA	TCT	GAG	GAC	300
T	V	D	T	S.	S	S	T	Α	Y	M	Q	L	S	S	Ł	T	S	E	D	100
		-																		
TCT	'GCA	GTC	TAT	TAC	TGT	ACA	AGC	CGA	TCT	ACT	'ATG	ATT	ACG	ACG	GGA	TTT	GCT	TAC	TGG	360
S	A		Y	Y	С	T	S		S	T	M	I		· Т		F			W	120
					:		,						CD	R3						
GGC	CAA	GGG	ACT	CTG	GTC	ACT	GTC'	TCT	GCA	GCT	ACA	ACA	ACA	GCC	CCA	тст	Gጥር'	ጥልጥ	רָרַאַ	420
G	Q	G	T	, T	V	T	V	S	Α	A,			Т	A	,P	s	v	Y	P	160
				•															•	

FIG. 60

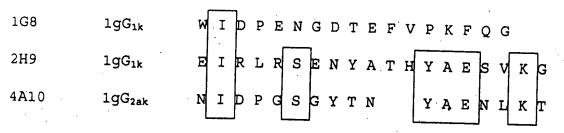
AA	TGA	CTT	CGG	GTT	GAG	CTG	GGT'	$ ext{TTT}$	TAT	TAT	TGT	ጥርጥ	ጥጥጥ	ממבֿ	እሮር	יככיי	000	3026	STGA	
N	D	F	, G	L	S	W	V	F	·I	I	V	L	L	K	AGC C	יטטי ז		JAĐE S		A 60 20
	•									•							•		ים כ	20
GT	GAG	GCTT	ΓGA	GGA	יטידד	TGG	AGG	AGG(ىتىلىن	ر ترس	CCA	א ממי	maa:	. ~~					CTC	
V	R	Ţ,	E	E	2	· G	G		- 1 G(11 DE	GCA	ACC	1662					ACI	CTC	120
		1.			J	9	G	G	. W	V	Q	Ъ	G	G	S	M	i k	I	S	40
TG	rgt <i>i</i>	AGCC	TCT	, [GG]	\TT	rac:	rttc	CAG	מבי	TTAC	CTG	ገ ል ጥረ	 3ልርጣ	ኮጥርረ	ىلىتكت			OTT C	TCCA	
С	V	A	S	G	F	T	F	S	N	Y	w	М	ог т	W						
٠									OR1				→	**	V	R	. Q	S	P	60
GAG	GAAC	GGG	CTI	rgac	TGC	GTI	rgci	GAZ	ATT	rcg <i>i</i>	TT	GAG!	ATCI	GAZ	4 A A A	, בידים	ምርረ	א א רי	ACAT	
Ε	K	G	L	E	W	V	Α	E	Ι	R	L	R	S	E	N	v	700	AAC T	H H	240
							•								CDI		A		<u></u>	80
TAT	GCG	GAG	TCI	GTG	AAA	.GGG	AAA	TTC	ACC	ATC	TCA	AGA	GAT	'GA'I	TC	CAG	AAG	ፐርር፡	TCTC	300
<u> </u>	_A_	_E_	_S _:	V_	_K_	_G	K	F	T	I	S	R	D			R		R		100
TAC	CTG	CAA	ATG	AAC	AAC	TTA	AGA	CCT	GAA	GAC	'АСТ	'GGA	<u>አ</u> ጥጥ	ጥለጥ	ነጠ አ ፖ	יחסיי	n » «·	. ~	rggŤ	
Y	L	Q	M	N	N	L	R	Þ	E	ח	s	G	I	Y						
				د	. 4 1	. :		-	_			G	1		Y	C	T	D	<u>Ģ</u>	120
CTG	GGA	CGA	CCT.	AAC'	TGG	GGC	CAA	GGG	ACT	СТС	ርጥር	∆ כיׁתי	СтС	יייטיי	~~~	000			BACA	
<u> </u>	G	R	P	N	W	G	0	G	T	T.	V	m T	V	101	GCA N					
	CI	DR3			•		~		-	_			•	٦	Α	A	K	T	Т	140
CCC	CCA:	rctc	TC:	TAT	CCA	CTG	GCC(CCT	rgto	GTA										
		S																		

FIG. 61

CDR1 Comparisons

		1gG _{1k}	Middle	G	F	N	I	K	D	Y	Y	I	Н
2H9		1gG _{1k}	N-Term.	G	F	T	F	S	N	Y	W	M	Т
4A10	1	$1gG_{2ak}$	N-Term.	G	Ÿ	Т	F	s	S	Y	W	M	Н

CDR2 Comparisons



CDR3 Comparisons

1G8	$_{1}$ 1gG _{1k}	G	G	F								٠,
2H9	1gG _{1k}	L	G	R	P	N						
4A10	$1gG_{2ak}$	R	S	T	М	I	T	Т	G	F	Α	. Y

FIG. 62

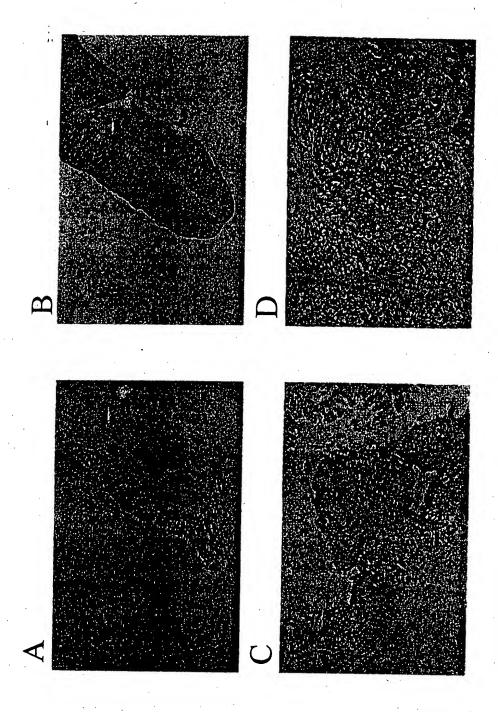
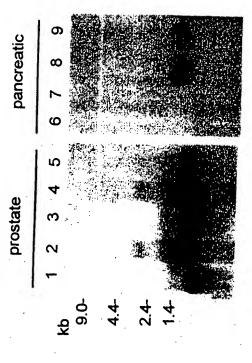
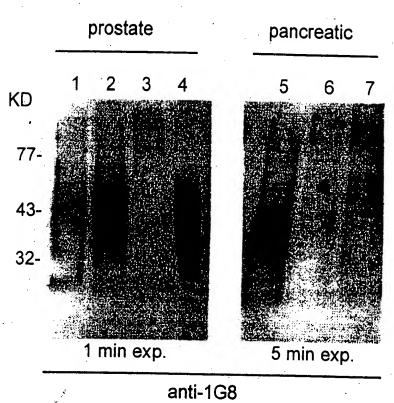


FIG. 63

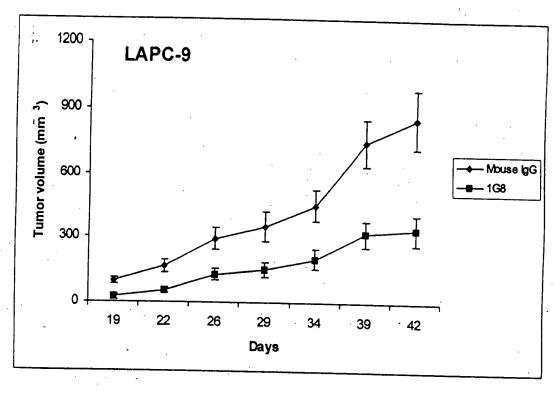


1. Prostate 6. PANC-1 2. LAPC-4 AD 7. BxPC-3 3. LAPC-4 AI 8. HPAC 4. LAPC-9 AD 9. Capan-1 5. LAPC-9 AI

FIG. 64



- 1. LAPC-4 AD
- 2. LAPC-9 AI
- 3. LNCaP
- 4. LNCaP-PSCA
- 5. HPAC
- 6. Capan-1 7. ASPC-1



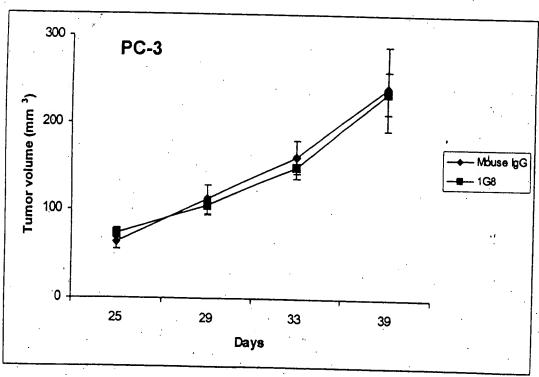
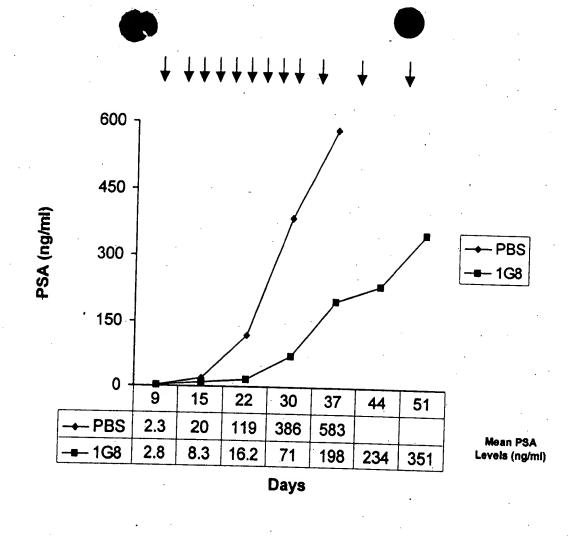


FIGURE 65

B)

A)



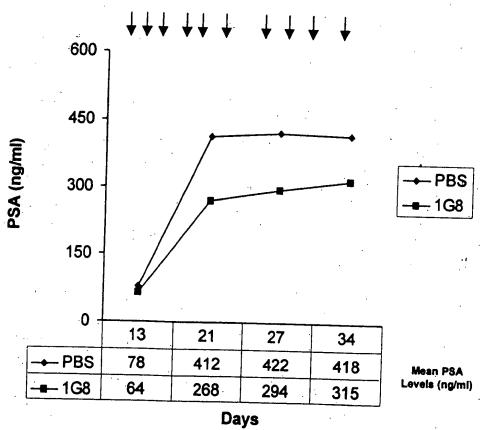
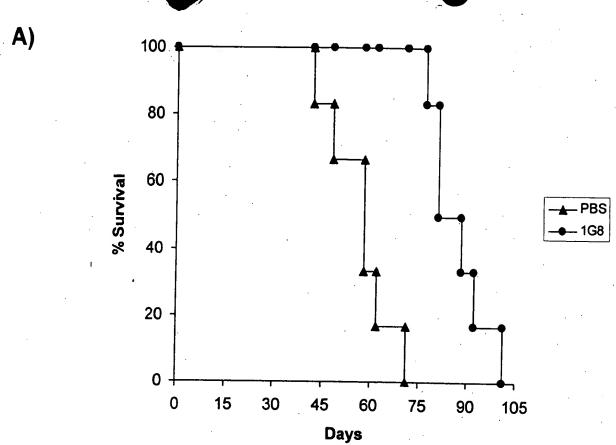
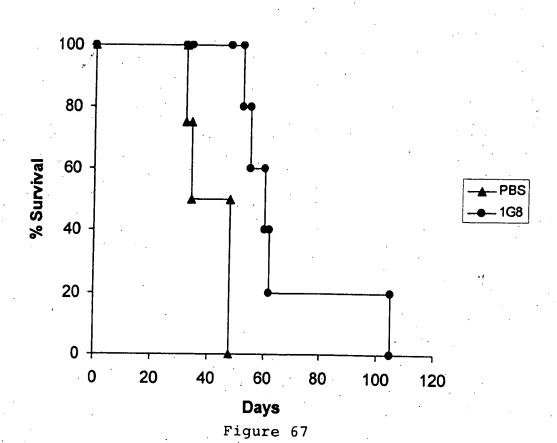
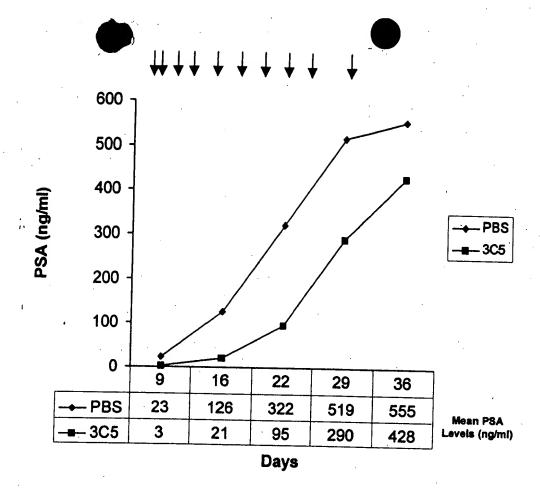


Figure 66





B)



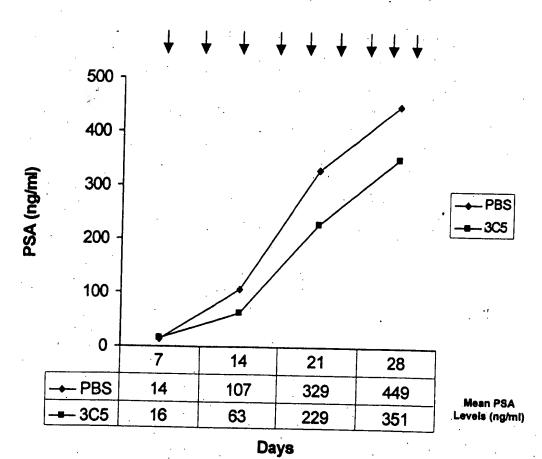


Figure 68

Figure 69

THERETE ELEMENT

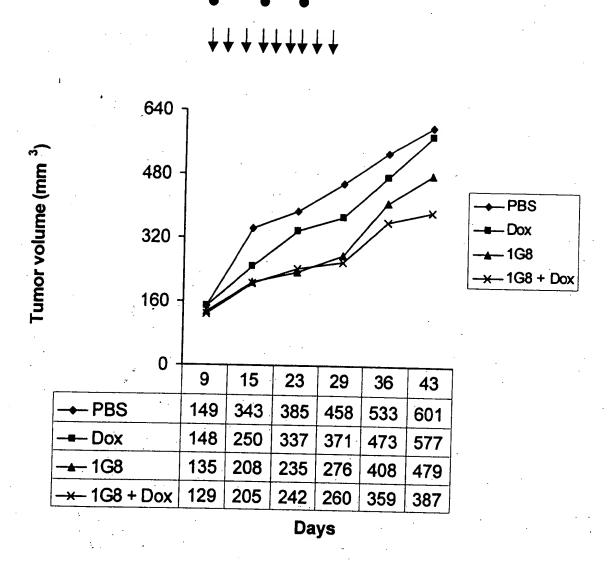
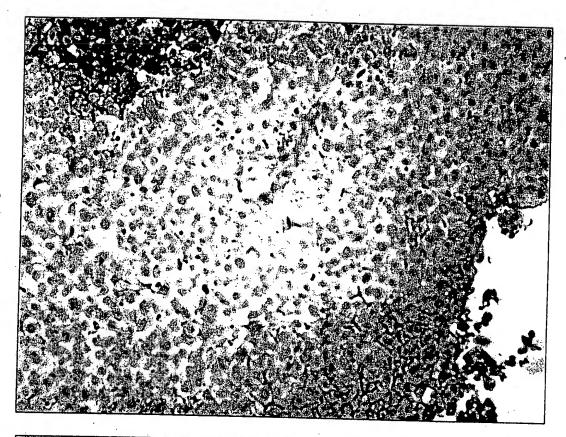


Figure 70

PSCA 3C5 MAb Localizes within LAPC9AD Xenograft Tissue



3C5 Treated



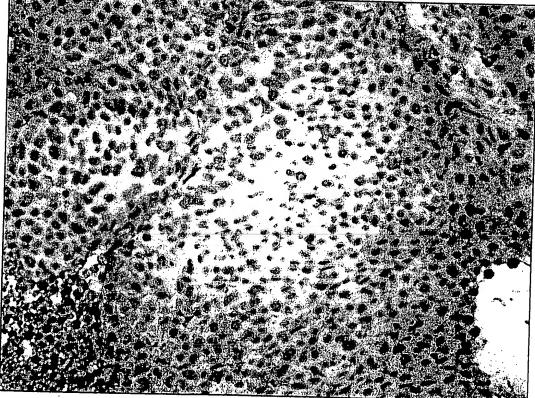
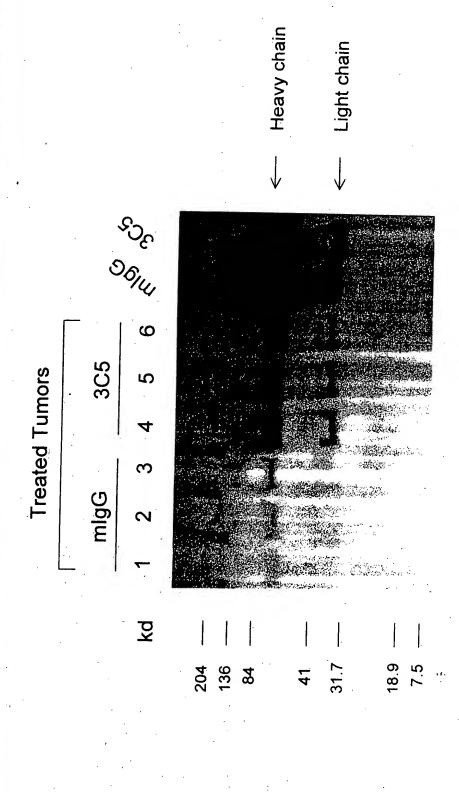


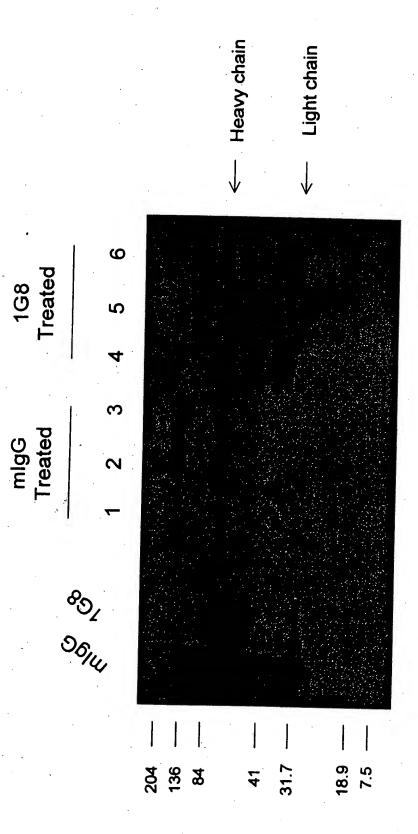
Figure 71

3C5 Anti-PSCA MAb is Localized to Established **LAPC-9 Tumors**



Western blot developed with $\alpha\text{-mlgG/k}$

SPECIFIC TARGETING OF THE 1G8 ANTI-PSCA MAB **TO ESTABLISHED LAPC-9 TUMORS**



- α-MigG Western

Method: Mice bearing established LAPC-9 tumors (>100 mm³) were injected with either mlgG or the anti-PSCA MAb 1G8. Tumors were harvested a week later and made into protein lysates for Western analysis.